

6/11/13

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B.E / B.Tech (Full Time) ARREAR EXAMINATIONS, NOV / DEC 2013

INFORMATION TECHNOLOGY

VI Semester

21

IT9354 Grid Computing

(Regulation 2008)

Time: 3 Hours

Answer ALL Questions

Max. Marks 100

PART-A (10 x 2 = 20 Marks)

1. List the benefits of using webservices in Grid Computing.
2. Difference between Cluster Computing and Grid Computing.
3. What are the unique features of ganglia and GridMon.
4. What is the purpose of introducing filtering/ fusing of data in grid monitoring systems.
5. What are the four types of resource selection in Grid Systems.
6. Define Certification Authority.
7. List any four portlet frameworks that support the porlets.
8. What are the issues that a Grid System face with respect to data management services.
9. What are the globally available grid middlewares.
10. Difference between GT3 and gLite.

Part – B (5 x 16 = 80 marks)

11. a) With a neat diagram of any Grid Monitoring System explain the following in detail :

- a) Architecture which is scalable and Fault Tolerant (4)
- b) Monitoring and extensibility (3)
- c) Data request and presentation (3)
- d) Searching and standards (3)
- e) Security (3)

11. a) Write short notes on
- a) SOAP (5)
 - b) WSDL (5)
 - c) UDDI (3)
 - d) Inspection (3)

(OR)

- b) Explain about Web Services Resource Framework (WSRF). (16)

12. a) Explain in detail about Grid Security Infrastructure and its various authorization modes. (16)

(OR)

- b) Discuss in detail about the (i) Various scheduling paradigms (10)
(ii) Push and Pull model of resource discovery (6)

13. a) Explain the three-tiered architecture of first-generation Grid portals and discuss the grid portal services. (16)

(OR)

- b) Discuss in detail about second generation portlets. (16)

15. a) Explain the architecture, components and features of gLite. (16)

(OR)

- b) Explain the architecture, components and features of GT3. (16)